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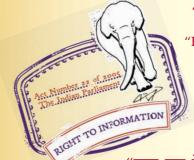
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IS 2818-6 (1977): Indian Hessian, Part 6: 245 g/m2 at 16 Percent Contract Regain [TXD 3: Jute and Jute Products]



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IS: 2818 (Part VI) - 1977

Indian Standard SPECIFICATION FOR INDIAN HESSIAN PART VI 245 g/m² AT 16 PERCENT CONTRACT REGAIN

(First Reprint OCTOBER 1989)

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BUREAU OF INDIAN STANDARDS MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG NEW DELHI 110002

IS: 2818 (Part VI) - 1977

Indian Standard SPECIFICATION FOR INDIAN HESSIAN

PART VI 245 g/m² AT 16 PERCENT CONTRACT REGAIN

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IS: 2818 (Part VI) - 1977

(Continued from page 1)

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Indian Standard SPECIFICATION FOR INDIAN HESSIAN

PART VI 245 g/m2 AT 16 PERCENT CONTRACT REGAIN

0. FOREWORD

0.1 This Indian Standard (Part VI) was adopted by the Indian Standards Institution on 5 July 1977, after the draft finalized by the Jute and Jute Products Sectional Committee had been approved by the Textile Division Council.

0.2 Other requirements regarding terminology, general requirements, packaging and marking, sampling and inspection, criteria for conformity of Indian hessian packed in bales or rolls shall be according to Part I of this standard.

0.3 This standard is based on Variety Cat. No. H2/8305-000165 of IND/TC/2121 (j) Cloths, jute, issued by the Ministry of Defence, Government of India.

0.3.1 Indian hessian (245 g/m^3) covered in this standard has been specified also as basic cloth in the following specifications issued by the Ministry of Defence, Government of India for manufacturing sand bags:

- IND/TC/2059 (d) Specification for sand bags, cuprammonium proofed
- IND/TC/2060 (a) Specification for sand bags, unproofed

The corresponding Indian Standard Specification for these sand bags is under preparation.

0.4 The Government of India has decided to adopt International System of Units (SI Units) for use in the industry and trade in India. To familiarize the industry with SI Units, the basic SI Units as well as the recommended SI Units for use in the textile industry are given in Appendix A.

0.5 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS: 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

^{*}Rules for rounding off numerical values (revised).

IS: 2818 (Part VI) - 1977

1. SCOPE

1.1 This standard (Part VI) prescribes constructional details and other particulars of 245 g/m²; 38×39 type of hessian of such widths as agreed to between the buyer and the seller.

2. SPECIFIC REQUIREMENTS

2.1 The hessian shall conform to the requirements laid down in Table 1.

2.2 The packed bales or rolls shall conform to the provisions laid down in Table 2.

TABLE 1 PARTICULARS OF HESSIAN

2.3 The contract moisture regain shall be 16 percent.

	(Cla	ause 2.1)	
Sl No,	Characte r istic	Requirement	Method of Test [see IS : 2818 (Part I) - 1971*]
(1)	(2)	· (3)	(4)
i)	Mass, $g_i m^2$	245 + 19 - 5	B- 6
ii) iii)	Ends per decimetre Picks per decimetre	38 ± 2 }	B-7
iv)	Width	As specified in the contract (see Note)	B- 5
v)	Breaking load, kgf†, <i>Min</i> : a) Strip method (10 × 20 cm):		B-8
	Warpway Weftway	92 83	
	b) Grab method (2:5 × 7:6 cm.): Warpway Weftway	29 27	

NOTE — If the specified width of hessian is 102 cm or below, the tolerance shall be $\frac{+3}{-0}$ cm and if it is above 102 cm, the tolerance shall be $\frac{+3}{-0}$ percent.

*Specification for Indian hessian: Part I General (*first revision*). †1 kgf = 9 8 N approx.

TABLE 2 REQUIREMENTS OF PACKED BALES OR ROLLS

(Clause 2.2)

SL No.	Characteristic	Requirement	Method of Test [see IS : 2818 (Part I)-1971*]
(1)	(2)	(3)	(4)
i)	Moisture regain, permissible	17 percent, Max	B-2
ii)	Contract mass of a bale	(Sec Note 1)	-
iii)	Contract mass of a roll	Calculated on the basis of formula given in Note 1 below	
iv)	Corrected net mass of a bale or roll (see Note 2)	Not less than contract mass	B-1
v)	Length of hessian per bale	1 829 m, <i>Min</i> unless otherwise specified	
vi)	Length of hessian per roll	As specified in the contract	} B-3
vii)	Permissible number of medium cuts and short pieces per bale	3 medium cuts, Max	
		or	
		2 medium cuts and 1 short piece, Max	
viii)	Number of joints in a roll and number of such joined rolls in a consignment (see Note 3)	As specified in the contract	
ix)	Oil content on dry deoiled material basis (see Note 4)	6 percent, Max	B-9
	NOTE 1 — Contract mass of a bale or rol	ll is calculated as follows	:
	Contract mass of a balc/roll in kg $= \frac{\text{Nominal width (}}{100}$	$\frac{(cm)}{(cm)} \times \frac{Marked}{length} (m) \times \frac{Marked}{(cm)}$	$\frac{\mathrm{ass}~(\mathrm{g/m^2})}{1~000}$
	Note 2 — Corrected net mass of a bale of Corrected net mass = $\frac{\text{Net mass} \times (10)}{100 + \text{average n}}$		
	NOTE 3 — The seller shall indicate on the	e roll(s) the number of jo	ints, if any.
с	Note 4 — The specified oil content valu f about 5 percent when determined on dry	e of 6 percent correspor deoiled material plus 16	ids to an oil content percent regain.

*Specification for Indian hessian: Part I General (first revision).

APPENDIX A

(*Clause* 0.4)

SI UNITS

TABLE 3 INTERNATIONAL SYSTEM OF UNITS

Base Units

QUANTITY	Unit	Symbol
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	Α
Thermodynamic temperature	kelvin	K
Luminous intensity	candel a	cd
Amount of substance	mole	mol
Supplementary Units		
QUANTITY	Unit	Symbol
Plane angle	radian	rad
Solid angle	steradian	sr
Derived Unit		
QUANTITY	Unit	Symbol Conversion
Force	newton	N 1 N = 1 kg. $1m/s^2$
Energy	joule	J 1 J=1 N.m
Power	watt	W 1 W=1 J/s
Flux	weber	Wb 1 Wb=1 V.s
Flux density	tesla	T 1 $T=1 \text{ Wb/m}^2$
Frequency	hertz	Hz 1 Hz=1 c/s (s^{-1})
Electric conductance	siemens	S 1 $S=1 A/V$
Pressure, stress	pascal	$Pa \qquad 1 Pa = 1 N/m^2$

SL	Characteristic	SI UNIT		Me	ETRIC UNIT	Application	
No.		Unit	Abbreviation	Unit	Abbreviation	•	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1)	Length	Millimetre Millimetre, centimetre Metre	mm mm, cm m			Fibres Samples and test speci- mens (as appropriate) Yarns, ropes and cord- ages, fabrics	
2)	Width	Millimetre Centimetre Millimetre, centimetre Centimetre, metre	mm cm mm, cm cm, m		 	Narrow fabrics Other fabrics Samples and test speci- men (as appropriate) Carpets, druggets, durries (as appropriate)	
3)	Thickness	Micrometre (micron) Millimetre	μm mm		_	Delicate fabrics Other fabrics, carpets, felts	
4)	*Linear density	Tex Millitex Decitex Kilotex	tex mtex dtex ktex			Yarns Fibres Filament and filament yarns Slivers, ropes and cord- ages	
5)	Diameter	Micrometre (micron) Millimetre	μm mm	,		Fibres Varns, ropes, cordages	
6)	Circumference	Millimetre	nım			Ropes, cordages	

TABLE 4 RECOMMENDED SI UNITS FOR TEXTILES

*For conversion of values in traditional counts to the tex and vice versa, reference to IS: 3689-1966 'Conversion factors and conversion tables for yarn counts' shall be made. (Continued)

		TABLE 4 RECO	OMMENDED SI UN	NITS FOR TE	XTILES — Coald	ne un de l'a la compañía de la compañía de la distribución de la compañía de la compañía de la compañía de la c La compañía de la comp A
Sl. No.	CHARACTERISTIC		NIT	ME	TRIC UNIT	Application
100.		Unit	Abbreviation	Unit	Abbreviation	· - `
(1)	(2)	(3)	(4)	(5)	(6)	(7)
7)	Threads in cloth :					
	a) Length	Number per centi- metre	ends, cm		— <u>]</u>	
		Number per deci- metre	ends/dm		-	Woven fabrics (as appro-
	b) Width	Number pcr centi- metre	picks,'cm		- }	priate)
		Number per deci- metre	picks/dm		-]	
8)	Warp threads in loom	Number per centi- metre	ends/cm		_	Reeds
9)	Stitches in cloth :					
	a) Length	Number per centi- metre	courses/cm	_	—)	
		Number per deci- metre	courses/dm		-	Knitted fabrics (as appro-
	b) Width	Number per centi- metre	wales/cm		- }	priate)
		Number per deci- metre	wales/dm			
10)	Stitch length	Millimetre	mm	—		Knitted fabrics Made-up fabrics
11)	Mass per unit area	Grams per square metre	g/m^2			Fabrics
12)	Mass per unit length	Grams per metre	g/m	_		Fabrics -
13)	Twist	Turns per centimetre Turns per metre	turns/cm turns/m		}	Yarns, ropes (as appro- priate)

and a second second

14)	Test or gauge length	Miilimetre, centi- metre	mm, cm			Fibres, yarns and fabric specimens (as appro- priate)
15)	Breaking load	Millinewton	mN	grams force	gf	Fibres, delicate yarns (skeins or individual)
		Newton	N	kilogram force	kgf	Strong yarns (individua or skeips), ropes and cordages, fabrics
16)	Breaking length	kilometre	km	-		Yarns
17)	Tenacity	Millinewton per tex	mN tex	grams force per tex	$\mathbf{g}\mathbf{f}_{i}$ tex	Fibres, yarns (individua _l or skeins)
18)	Twist factor or twist multiplier	Turns per centimetre × square root of tex	$\frac{\text{turns/cm}}{\sqrt{\text{tex}}} \times$	_	- }	Yarns (as appropriate)
		Turns per metre × square root of tex	$\frac{\text{turns m} \times}{\sqrt{\text{tex}}}$		-]	
19)	Bursting strength	Newton per square centimetre	N/cm ²	kilogram force per square centimetre	kgf,'cm²	Fabrics
20)	Tear strength	Millinewton Newton	mN N	grams force, kilogram force	$\mathbf{g}\mathbf{f}_{i}\mathbf{k}\mathbf{g}\mathbf{f}$	Fabrics (as appropriate)
21)	Pile height	Millimetre	mm			Carpets
22)	Pile density	Mass of pile yarn in grams per square metre per milli- metre pile height	g/m ² /mm pile height		_	Pile carpet
23)	Elastic modulus	Millinewton per tex per unit deforma- tion	mN/tex/unit deformation	grams force per tex per unit deformation	gf/tex/unit deformation	Fibres, yarns, strands

Nore --- Where more than one unit have been given for one characteristic, any of the units may be used appropriate.

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AMENDMENT NO. 1 NOVEMBER 2005 TO IS 2818 (PART 6) : 1977 SPECIFICATION FOR INDIAN HESSIAN

PART 6 245 g/m² AT 16 PERCENT CONTRACT REGAIN

[Page 5, Table 2, Sl No. (ix), col 3] — Substitute '3' for '6'.

(*Page* 5, *Note* 4) — Substitute the following for the existing note:

NOTE 4 — The specified oil content value of 3 percent corresponds to an oil content of about 2.6 percent when determined on dry deoiled material plus 16 percent moisture regain².

(TX 03)